

03050105-110

(Cherokee Creek)

General Description

Watershed 03050105-110 is located in Cherokee County and consists primarily of *Cherokee Creek* and its tributaries. The watershed occupies 14,911 acres of the Piedmont region of South Carolina.

The predominant soil types consist of an association of the Cecil-Goldston-Badin series. The erodibility of the soil (K) averages 0.22, and the slope of the terrain averages 10%, with a range of 2-45%. Land use/land cover in the watershed includes: 36.8% forested land, 33.2% agricultural land, 22.1% urban land, 4.6% scrub/shrub land, 1.9% water, and 1.4% barren land.

Cherokee Creek flows through Lake Whelchel (180 acres) near the City of Gaffney and accepts drainage from Allison Creek in the lake and Providence Branch downstream of the lake before flowing into the Broad River. There are several ponds and lakes (totaling 219.9 acres) in this watershed and 16.6 stream miles, all classified FW.

Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
B-056	S	FW	CHEROKEE CREEK AT US 29, 3 MI E OF GAFFNEY
B-679	BIO	FW	CHEROKEE CREEK AT SC 329

Cherokee Creek - There are two monitoring sites along Cherokee Creek. At the upstream site (**B-056**), aquatic life uses are fully supported. There is a significant decreasing trend in pH. Significant decreasing trends in total phosphorus concentration and turbidity suggest improving conditions for these parameters.

Recreational uses are not supported at this site due to fecal coliform bacteria excursions. At the downstream site (**B-679**), aquatic life uses are partially supported based on macroinvertebrate community data.

NPDES Program

Active NPDES Facilities

<i>RECEIVING STREAM</i>	<i>NPDES#</i>
<i>FACILITY NAME</i>	<i>TYPE</i>
<i>PERMITTED FLOW @ PIPE (MGD)</i>	<i>LIMITATION</i>
<i>COMMENT</i>	
PROVIDENCE BRANCH	SCG645045
BPW/VICTOR GAFFNEY WTP	MINOR DOMESTIC
PIPE #: 001 FLOW: 1.02	WATER QUALITY
WQL FOR TRC	

Nonpoint Source Management Program

Land Disposal Activities

Landfill Facilities

<i>LANDFILL NAME</i>	<i>PERMIT #</i>
<i>FACILITY TYPE</i>	<i>STATUS</i>
CHEROKEE COUNTY LANDFILL	111001-1101
DOMESTIC	CLOSED

Mining Activities

<i>MINING COMPANY</i>	<i>PERMIT #</i>
<i>MINE NAME</i>	<i>MINERAL</i>
BOREN BRICK	0113-21
HIGGINS RED CLAY PIT	CLAY
BOREN BRICK	0114-21
SHALE PIT	SHALE

Water Supply

<i>WATER USER</i>	<i>TOTAL PUMP. CAPACITY (MGD)</i>
<i>STREAM</i>	<i>RATED PUMP. CAPACITY (MGD)</i>
CITY OF GAFFNEY BPW	----
LAKE WHELCHER	18.0

Growth Potential

There is a moderate potential for growth in this watershed, which contains a portion of the City of Gaffney. The City of Gaffney is planning for new subdivision growth by considering new regional treatment facilities near the Cherokee Creek-Broad River area. Major growth is expected along the I-85 corridor, particularly in the area north of Gaffney. Commercial growth is also associated with the I-85 corridor near the S.C. Hwy. 11 interchange north of Gaffney and at the S.C. Hwy. 105 interchange with the new outlet center. The potential for industrial growth exists along S.C. Hwy. 329 east of Gaffney due to the existing industrial park.